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NEWSLETTER 14



Tooling News

PRECISION BOARD PLUS HDU



"A great product and 10 years of satisfied customers to prove it"

Retrofit Breathes New Life into Old Trucks

Daycab Company



Since 1999, **Daycab Company**, in Rockwood, TN, has been using composites to retrofit class 8 commercial trucks with sleeper cabs to day cabs. Why would anyone be interested in having the sleeper cab removed, and a composite day cab installed you ask? Once a commercial truck gets to a certain age, many fleets will not run them and purchase new ones. The old trucks are then auctioned off, and are popular among local farmers, short haul companies and dealerships. The large abundance means they sell quite cheap.

to be converted. With the cab removed and the void exposed, Precision Board Plus HDU is machined using a 5-axis CNC router. This male mold is then coated with a sealer, vinyl ester, and is sanded. Red hard gelcoat and fiberglass is applied, to start the female mold. Plaster, fiberglass and resin complete the final stages.

Once the female mold is completed, gelcoat and fiberglass is shot to make the final production part. The part is completed by being trimmed on a CNC machine, and is then painted and installed on the Peterbilt truck, providing a great looking finished product.

Daycab Company is owned by Marc Wagers and converts over 1500 commercial trucks a year. They offer pre-built kits, can ship anywhere, and also have their own install shop. Check out additional details on their website at daycabs.com.

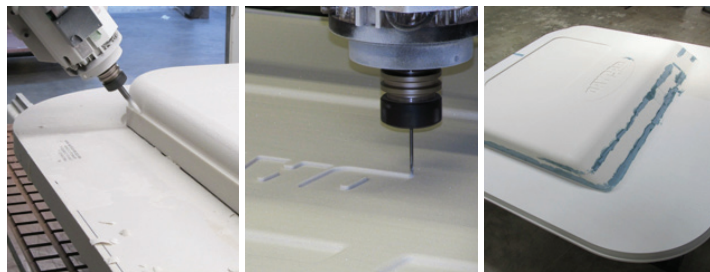


Winner – 1st Place in Design

Human Powered Vehicle

The **Cal Poly Human Powered Vehicle Team** recently competed at the **ASME** (American Society of Mechanical Engineers) student Human Powered Vehicle Challenge West competition with their newest bike "Gemini", which was built using donated Precision Board Plus HDU.

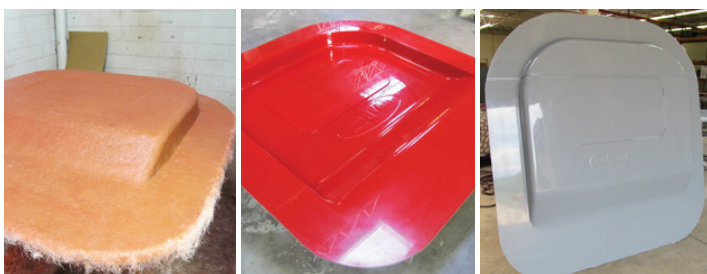
The event was held at the Miller Motorsports Park in Tooele, Utah on the go-kart racing track. The first event was the design portion and was held in the pit garages. A team of judges inspected the bike and the team was allotted 20 minutes to explain their design, safety, testing and analysis. The design portion shows their engineering, design and fabrication skills, and is the only part of the competition where race luck (good or bad) doesn't play a part. To read more about how the Cal Poly team paved their road to victory, visit our blog at precisionboard.com or visit **Cal Poly's Human Powered Vehicle page on Facebook.com**.



When first speaking with Zach Martin, Product Design Specialist and Machine Programmer at Daycab Company, I was surprised to hear that commercial trucks were quite desirable with the sleeper cabs removed. The reasons for this vary: farmers like non-sleeper cabs because loading in grain or other products at a station might have a height restriction that a sleeper can't meet. Removing a sleeper also saves on weight, which could instead be used for carrying more cargo.

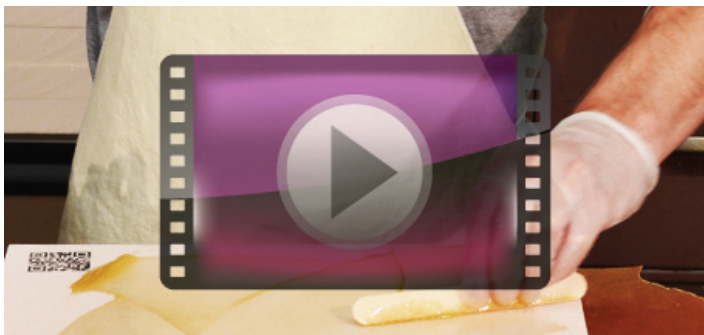
Short haul companies have the same issue as farmers with the weight of the sleeper and cargo, and because they work in more localized areas (farms, rock yards and landscaping companies), they require better visibility out the back.

Precision Board Plus HDU is used to manufacture the part used to fill the void created once the sleeper cab is removed. In this case, a Peterbilt semi truck is going



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HDU Bonding How To Video

PB Bond 240 Fully Cures in 12 Hr.

A versatile one-part, urethane adhesive that is ready to use right out of the container (no mixing), **PB Bond 240** is specifically designed to laminate Precision Board Plus sheets to increase thickness or to edge bond them to increase length or width. Create rough shapes of your part or tool that are ready for machining. We just finished a series of How to videos for all of our companion products. Go to **PrecisionBoard.com** to see the PB Bond 240 video, as well as the rest of our video library.

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To request a written, personalized copy of our "Life of The Sign Warranty" for a sign you've made using Precision Board Plus, contact us at:
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Interested in Having Your Company Featured in Our Newsletter?

You may have noticed we like to share interesting stories from our customers about their projects using Precision Board Plus. If you would like us to feature your company in one of these stories, we want to hear from you.

Here's what we're looking for:

- *In process photos working with Precision Board Plus*
- *Finished project photos*
- *Advice for those who are new to Precision Board Plus*
- *Tips for working with HDU*

Send us an e-mail at **hdu@precisionboard.com** along with any interesting details about the project.

These newsletters are sent to thousands of our customers and are a great way to build recognition for your company and share your expertise.

Certified Green

Precision Board Plus has been reformulated with eco-friendly, "Green" urethane components. The new Plus formulation has achieved a certified "Carbon Balance" of 3 to 1 and a "Rapidly Renewable Resource Content" of 23.9%. This major environmental improvement has also produced a tighter cell structure which results in more chips and less dust when cutting and machining.

Precision Board Plus now assists in meeting LEED requirements for obtaining USGBC and ICC 700 Building Credits.



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